

Title (en)  
COATED ABRASIVE ARTICLE HAVING ROTATIONALLY ALIGNED FORMED CERAMIC ABRASIVE PARTICLES AND METHOD OF MAKING

Title (de)  
BESCHICHTETER SCHLEIFARTIKEL MIT DREHEND AUSGERICHTETEN GEFORMTEN KERAMIKSCHLEIFPARTIKELN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
ARTICLE ABRASIF REVÊTU AYANT DES PARTICULES ABRASIVES CÉRAMIQUES FAÇONNÉES ALIGNÉES EN ROTATION ET PROCÉDÉ DE FABRICATION

Publication  
**EP 2675591 A4 20180321 (EN)**

Application  
**EP 12747774 A 20120201**

Priority  
• US 201161443418 P 20110216  
• US 2012023477 W 20120201

Abstract (en)  
[origin: WO2012112305A2] A coated abrasive article having a plurality of formed ceramic abrasive particles each having a surface feature. The plurality of formed ceramic abrasive particles attached to a flexible backing by a make coat comprising a resinous adhesive forming an abrasive layer. The surface feature having a specified z-direction rotational orientation, and the specified z-direction rotational orientation occurs more frequently in the abrasive layer than would occur by a random z-direction rotational orientation of the surface feature.

IPC 8 full level  
**B24D 3/14** (2006.01); **B24D 3/28** (2006.01); **B24D 11/00** (2006.01); **C09C 1/68** (2006.01); **C09K 3/14** (2006.01)

CPC (source: EP KR US)  
**B24D 3/004** (2013.01 - EP US); **B24D 3/14** (2013.01 - KR); **B24D 3/28** (2013.01 - EP KR US); **B24D 11/001** (2013.01 - EP); **B24D 11/06** (2013.01 - KR); **B24D 18/0072** (2013.01 - EP); **C09C 1/00** (2013.01 - KR); **C09K 3/14** (2013.01 - KR); **C09K 3/1409** (2013.01 - EP US); **B24D 2203/00** (2013.01 - EP US)

Citation (search report)  
• [XDI] US 5366523 A 19941122 - ROWENHORST DONLEY D [US], et al  
• [XD] US 5201916 A 19930413 - BERG TODD A [US], et al  
• [X] WO 2010077519 A2 20100708 - 3M INNOVATIVE PROPERTIES CO [US]  
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• [A] US 2007037500 A1 20070215 - MINICK CHRIS A [US], et al  
• See also references of WO 2012112305A2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
**US 2012023477 W 20120201**; BR 112013019401 A 20120201; CA 2827223 A 20120201; CN 201280005402 A 20120201; EP 12747774 A 20120201; EP 22177600 A 20120201; JP 2013554470 A 20120201; KR 20137023994 A 20120201; RU 2013135661 A 20120201; US 201213983012 A 20120201; US 201715700869 A 20170911